

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/018,445A

DATE: 04/15/2003 TIME: 13:55:39

Input Set : A:\10018445.txt

		<110>					nk E	Benne	ett									
	5		Brett															
	6	-1.00	Lex M. Cowsert TITLE OF INVENTION: ANTISENSE MODULATION OF INTEGRIN BETA 3 EXPRESSION															
										. MOI	OLAI	LON	OF 1	NIEC	2LTIA	DEIF	J EAF	KESSION
		<130>								10 /1 0	/010							
			0> CURRENT APPLICATION NUMBER: US/10/018,445A 1> CURRENT FILING DATE: 2002-08-09															
C>		<150> PRIOR APPLICATION NUMBER: US 09/344,520																
		<150>									,44,~	120						
									00 20	,								
			160> NUMBER OF SEQ ID NOS: 47 210> SEQ ID NO: 1 211> LENGTH: 3170															
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			<213> ORGANISM: Homo sapiens															
		<220> FEATURE: <221> NAME/KEY: CDS																
		<222>					2387	7)										
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	28		Met Arg Ala Arg Pro Arg Pro Leu															
	29							1				5				•	LO	
	31	tg	g gtg	act	gtg	ctg	gcg	ctg	ggg	gcg	ctg	gcg	ggc	gtt	ggc	gta	gga	98
	32	Tr	o Val	Thr	Val		Ala	Leu	Gly	Ala		Ala	Gly	Val	Gly		GIA	
	33					15					20					25		146
	35	ggg	gccc	aac	atc	tgt	acc	acg	cga	ggt	gtg	agc	Con	tgc	cag	cag	Crrc	146
	36	GL	y Pro	Asn		Cys	Thr	Thr	Arg	35	vaı	ser	ser	Cys	40	GIII	Cys	
	37	4			30		a + ~	+~+	~~~		+ ~ ~	+ a+	ant.	a a a		cta	cct	194
	39	CTO	g gct ı Ala	gra	agc	Dro	alg Mo+	Cyc	712	Trn	Cve	Sar	Den	Glu	Δla	Len	Pro	134
	40 41	те	л нта	45	Ser	FIO	Mec	Cys	50	115	Cys	DCI	1135	55	71.LU	±0 u		
	43	ct	g ggc		cct	Cac	tat	gac		aad	gag	aat	cta		aaσ	gat	aac .	242
	44	T.e.	u Gly	Ser	Pro	Ara	Cvs	Asp	Leu	Lvs	Glu	Asn	Leu	Leu	Lvs	Asp	Asn	
	45	110	60	DCI	110	1119	O J O	65		-1-			70			-		
	47	tai	t gcc	сса	σaa	tcc	atc		ttc	cca	qtq	agt	gag	qcc	cga	gta	cta	290
	48	Cv:	s Ala	Pro	Glu	Ser	Ile	Ğlu	Phe	Pro	Val	Ser	Glu	Āla	Arg	Val	Leu	
	49	7					80					85					90	
	51	gae	g gac	agg	ccc	ctc	agc	gac	aag	ggc	tct	gga	gac	agc	tcc	cag	gtc	338
	52	Ğlı	u Āsp	Arg	Pro	Leu	Ser	Asp	Lys	Gly	Ser	Gly	Asp	Ser	Ser	Gln	Val	
	53		-	_		95					100					105		
	55	ac'	t caa	gtc	agt	ccc	cag	agg	att	gca	ctc	cgg	ctc	cgg	cca	gat	gat	386
	56	Th	r Gln	Val	Ser	Pro	Gln	Arg	Ile	Ala	Leu	Arg	Leu	Arg	Pro	Asp	Asp	
w>	57				_	L10				_	115					120		
	62	tc	g aag	aat	ttc	tcc	atc	caa	gtg	cgg	cag	gtg	gag	gat	tac	cct	gtg	434

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W>	63 64	Ser	Lys	Asn 125	Phe	Ser	Ile	Gln	Val 130	Arg	Gln	Val	Glu	Asp 135	Tyr	Pro	Val	
" /	66	gac	atc		tac	ttg	ato	gac		tct	tac	tcc	atα		gat	gat	cta	482
	67					Leu												
W>		T	140	- 1 -	-1-			145					150	1 .		1		
	70	t.aa		atc	caq	aac	cta	aat	acc	aaσ	cta	acc	acc	caq	atσ	cga	aaq	530
	71					Asn												
W>		155					160	-		- .		165				_	170	
	74	ctc	acc	agt	aac	ctg	cgg	att	ggc	ttc	ggg	gca	ttt	gtg	gac	aag	cct	578
	75					Leu												
W>	76					175	-		_		180					185		
	78	gtg	tca	cca	tac	atg	tat	atc	tcc	cca	cca	gag	gcc	ctc	gaa	aac	ccc	626
	79	Val	Ser	Pro	Tyr	Met	Tyr	Ile	Ser	Pro	Pro	Glu	Ala	Leu	Glu	Asn	Pro	
W>	80				190					195					200			
	82					aag												674
	83	Cys	Tyr	Asp	Met	Lys	Thr	Thr	Cys	Leu	Pro	Met	Phe	Gly	Tyr	Lys	His	
M>	84			205					210					215				
	86		_			act	_	-			_				_		-	722
	87	Val	Leu	Thr	Leu	Thr	Asp	Gln	Val	Thr	Arg	Phe	Asn	Glu	Glu	Val	Lys	
M>			220					225					230					
	90					tca												770
	91	_	Gln	Ser	Val	Ser	_	Asn	Arg	Asp	Ala		Glu	GLy	GLy	Phe		
W>		235					240					245					250	010
	94					gct												818
	95	Ala	тте	Met	GIn	Ala	Thr	Val	Cys	Asp		ràs	тте	GTĀ	Trp		Asn	
M>						255					260			~	+	265	a+a	866
	98					ttg												000
w>	99	Asp	Ата	ser	270	Leu	ьeu	vaı	Pne	275		Asp	Ата	пуъ	280		TIE	
W>	102	~~	. ++				cto						r cct	- aat			g cag	914
	102																y Gln	214
W>		ATO	шс	285	_	nig	псс	1110	290		· vu	. 011		295		, OT.	, 0111	
" /	106	tat	- cat			agt	gac	aat		_	t tot	acc	t to			ato	g gat	962
	107																Asp	
W>		91.	300		2			305		1-			310				-	
	110	tat			tto	a a a	cto	ato	act	gad	aac	, cta	tc	cac	, aaa	a aad	atc	1010
	111																n Ile	
W>	112	315				_	320				-	325			-		330	
	114	aat	ttg	g ato	ttt	gca	gtg	act	gaa	a aat	gta	gto	aat	cto	tat	cag	g aac	1058
	115																n Asn	
· w>	116					335					340					345		
	118																g gat	1106
	119	Туз	s Sei	Glu	ı Let	ı Ile	Pro	Gly	Thi	r Thr	· Val	. Gly	/ Val	Let			. Asp	
W>					350					355					360			
	122																c cgt	1154
	123	Sei	s Sei			Leu	Gln	Let			Asp	Ala	а Туз			s Ile	e Arg	
M>				365					370					375				
	126																cta	1202
	127	Sei	c Lys	s Val	Glu	ı Leu	Glu	Val	Arg	g Asp	Let	ı Pro	Glı	ı Glü	ı Leı	ı Sei	c Leu	

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W>	128		380					385					390					
	130	tcc			acc	acc	tac		aac	aat	ααα	gtc		cct	aac	ctc	aan	1250
	131	Ser	Phe	Asn	Ala	Thr	Cvs	Leu	Asn	Asn	Glu	Val	Tle	Pro	Glv	Leu	Lvs	1230
W>	132	395					400			11011	010	405	110	110	OLY	пси	410	
	134	tct	tat	atq	ααa	ctc		att	gga	gac	acq	gtg	agc	ttc	agc	att		1298
	135	Ser	Cys	Met	Ğĺv	Leu	Lvs	Ile	Glv	Asp	Thr	Val	Ser	Phe	Ser	Tle	Glu	1270
W>	136		_			415	2		1	P	420		001		001	425	OIG	
	138	qcc	aaq	ata	cga	aac	tat	ccc	caq	σασ		gag	aaα	tee	+++		ata	1346
	139	Ăla	Lys	Val	Ara	Glv	Cvs	Pro	Gln	Glu	Lvs	Glu	Lvs	Ser	Phe	Thr	Tle	1340
W>	140		_		430		- 1 -			435	-10			501	440		110	
	142	aaq	ccc	ata	qqc	ttc	aaσ	gac	agc		atc	gtc	cag	atic		ttt	gat	1394
	143	Lys	Pro	Val	ĞÎv	Phe	Lvs	Asp	Ser	Leu	Ile	Val	Gln	Val	Thr	Phe	Asp	1001
W>	144	-		445	-		-	-	450					455			1101	
	146	tgt	gac	tgt	qcc	tac	caq	acc		act	αaa	cct	aat.		cat	cac	tac	1442
	147	Cys	Āsp	Cys	Ãla	Cys	Gln	Āla	Gln	Ala	Glu	Pro	Asn	Ser	His	Ara	Cvs ·	
W>	148	-	460	-		-		465					470		0	9	0,10	
	150	aac	aat	ggc	aat	aga	acc	ttt	gag	tat	aaa	gta		cat	t.at.	aaa	cat	1490
	151	Asn	Asn	Ğly	Asn	Gly	Thr	Phe	Glu	Cvs	Glv	Val	Cvs	Ara	Cvs	Glv	Pro	
W>	152	475		_		-	480			-	-	485	2		-1-	1	490	
	154	ggc	tgg	ctg	gga	tcc	cag	tqt	gag	tac	tca	gag	σασ	σac	tat	cac		1538
	155	Gly	Trp	Leu	Gly	Ser	Gln	Cys	Glu	Cys	Ser	Ğlu	Glu	Asp	Tvr	Ara	Pro	
W>	156				_	495		-		-	500				- 2 -	505		
	158	tcc	cag	cag	gac	gag	tgc	agc	ccc	cga	gag	ggt	caq	ccc	qtc	tac	agc	1586
	159	Ser	Gln	Gln	Asp	Glu	Cys	Ser	Pro	Arg	Glu	Ğly	Gln	Pro	Val	Cys	Ser	
M>	160				510					515		-			520	•		
	162	cag	cgg	ggc	gag	tgc	ctc	tgt	ggt	caa	tgt	gtc	tgc	cac	agc	aqt	gac	1634
	163	Gln	Arg	Gly	Glu	Cys	Leu	Cys	Gly	Gln	Cys	Val	Cys	His	Ser	Ser	Āsp	
W>	164			525					530		_		_	535			-	
	166	ttt	ggc	aag	atc	acg	ggc	aag	tac	tgc	gag	tgt	gac	gac	ttc	tcc	tgt	1682
	167	Phe	Gly	Lys	Ile	Thr	Gly	Lys	Tyr	Cys	Glu	Cys	Asp	Asp	Phe	Ser	Cys	
M>			540					545					550					
	170	gtc	cgc	tac	aag	ggg	gag	atg	tgc	tca	ggc	cat	ggc	cag	tgc	agc	tgt	1730
	171		Arg	Tyr	Lys	Gly	Glu	Met	Cys	Ser	Gly	His	Gly	Gln	Cys	Ser	Cys	
W>		555					560					565					570	
	174	ggg	gac	tgc	ctg	tgt	gac	tcc	gac	tgg	acc	ggc	tac	tac	tgc	aac	tgt	1778
	175	Gly	Asp	Cys	Leu		Asp	Ser	Asp	Trp	Thr	Gly	Tyr	Tyr	Cys	Asn	Cys	
W>						575					580					585		
	178	acc	acg	cgt	act	gac	acc	tgc	atg	tcc	agc	aat	ggg	ctg	ctg	tgc	agc	1826
	179	Thr	Thr	Arg								Asn				_	Ser	
W>										595								
	182	ggc	cgc	ggc	aag	tgt	gaa	tgt	ggc	agc	tgt	gtc	tgt	atc	cag	ccg	ggc	1874
	183	GIĀ	Arg		ьуs	Cys	GLu	Cys		Ser	Cys	Val	Cys		Gln	Pro	Gly	
M>				605					610					615				
	186	C	tat	ggg	gac	acc	tgt	gag	aag -	tgc	ccc	acc	tgc	cca	gat	gcc	tgc	1922
T.7 \	187			GTA	Asp	Thr	Cys		Lys	Cys	Pro	Thr		Pro	Asp	Ala	Cys	
W>			620					625					630					
	190	dCC	TTT	aag	aaa	gaa	tgt	gtg	gag	tgt	aag	aag	ttt	gac	cgg	gag	ccc	1970
T	191	inr	rne	ьys	гÀг	GTU		val	GLu	Cys	ьуs	Lys	Phe	Asp	Arg	Glu		
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Input Set : A:\10018445.txt

W>	194 195 196															att Ile 665		2018
W>	198 199 200						_	_			_	_	-			tgt Cys		2066
W>	202 203		_			-	_	_	_	_	_		_			gaa Glu	_	2114
W>	206 207 208															tgt Cys		2162
W>	210 211 212															gcc Ala		2210
W>	214 215															atc Ile 745		2258
W>	218 219															gcc Ala		2306
W>	222 223															acg Thr		2354
W>	226 227 228		ttc Phe 780									taa	tgat	caago	cag 1	tcato	cctcag	2407
	230 232 234 236 240 242 244 246 250 252 257 258 260 262 263 265	tati gga; tgtc agc; gaac tacc tgc; agg; ccc; gtg; c210> 3 <211> 1 <212> 5 <221> (220> 1 <223> (400> 3	attat ttgt agtgt ggga ccaga aggt ggaga cctga tggct aggat aggat ttcat ttCat SEQ I FEATU OTHER SEQUE	ggg (ggg (ggg (ggg (ggg (ggg (ggg (ggg	gagggggtete tgtaa gecte getea geagg tcata geagga gttet etggg tcaca 223 A: Art	gatte gtgtg gtgtg attta ggctg aaatt cccg agag cctcc gcca accc	gt gf aa aa ca gg cc to ga gg ct af cc to cial N: PO	gatte ggget ggatte ggatte ggete ggete aacta aggga aggga CR Pi	ccaga cgtgg ccttc gagaa ctcat cctca cgtac aagtc gtcat cttgc	a gigg g gg g tgt g ctc a gcc a gcc a gcc a gcc c tcc a gcc c tcc c ctt	ggggt gtctq cctq gctta caget cctga cctga cctga cctga atgga	tagg gtgt gata agct tttc ggaa actc ctgt agct cctgt	gtti agci tgaq ctca ggga tcaq ttto gcci aati	ggaga catgt cgago gggto acaco acaco ccct cttto	aat quat quat quat quat quat quat quat q	gtcaq gtgtq cattaq cattq gcctt tggta ctcaq atccq cctgt	ggacag gtatgt gttgtg gccttt gagctc ggccca ggccga cctcaa ctggga	2467 2527 2587 2647 2707 2767 2827 2887 2947 3007 3067 3127 3170
	266 269	ttta <210> 3	accad SEQ I			caaga	ac to	ca										23

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PATENT APPLICATION: US/10/018,445A TIME: 13:55:39

Input Set : A:\10018445.txt

		LENGTH: 21	
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		FEATURE:	
275	<223>	OTHER INFORMATION: PCR Primer	
277	<400>	SEQUENCE: 3	
278	CC	gtcattag gctggacaat g	21
281	<210>	SEQ ID NO: 4	
282	<211>	LENGTH: 25	
283	<212>	TYPE: DNA	
284	<213>	ORGANISM: Artificial Sequence	
286	<220>	FEATURE:	
287	<223>	OTHER INFORMATION: PCR Probe	
289	<400>	SEQUENCE: 4	
290	ata	agcattgg acggaaggct ggcag	25
293	<210>	SEQ ID NO: 5	
294	<211>	LENGTH: 19	
295	<212>	TYPE: DNA	
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		FEATURE:	
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301	<400>	SEQUENCE: 5	
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306	<211>	LENGTH: 20	
307	<212>	TYPE: DNA	
308	<213>	ORGANISM: Artificial Sequence	
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313	<400>	SEQUENCE: 6	
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317		SEQ ID NO: 7	
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319	<212>	TYPE: DNA	
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		FEATURE:	
323	<223>	OTHER INFORMATION: PCR Probe	
		SEQUENCE: 7	
326	caa	agettece gtteteagee	20
329		SEQ ID NO: 8	
		LENGTH: 18	
331	<212>	TYPE: DNA	
		ORGANISM: Artificial Sequence	
		FEATURE:	
		OTHER INFORMATION: Antisense Oligonucleotide	
337	<400>	SEQUENCE: 8	
		atctcgtc cgcctccc	18
		SEQ ID NO: 9	
		LENGTH: 18	

VERIFICATION SUMMARY

DATE: 04/15/2003 PATENT APPLICATION: US/10/018,445A TIME: 13:55:40

Input Set : A:\10018445.txt

```
L:12 M:270 C: Current Application Number differs, Replaced Current Application No
 L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:57 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:64 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:68 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:72 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:76 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:80 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:84 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:88 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:92 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:96 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:100 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:104 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:108 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:112 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
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 L:120 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:124 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:128 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
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 L:136 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
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L:200 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:204 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:208 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:212 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
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L:220 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:224 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:228 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
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